

**ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99219
509-534-0161**

RECEIVED
OCT 29 1990
SUPER FUND BRANCH

REPORT TO: Spokane County Dept. of Utilities
N. 811 Jefferson
Spokane, WA 99210

LAB NO: 34086-90
DATE: 10-19-90
SAMPLE DATE: OCTOBER

ATTN: Bruce Austin


DESCRIPTION: Perform Volatile Organic Scan on sixteen submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

This document contains five pages.

Respectfully Submitted,
ABC LABORATORIES, INC.



W.E. Burkhardt
President

USEPA SF



1414367

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities

LAB #: 34086-90

NAME:

(b) (6)

(b) (6)

WELL #:

DATE:

1073E-3

10-17-90

0273C-3

10-18-90

1573E-1

10-17-90

0273P-3

10-18-90

0273P-3

10-19-90

1473M-1

10-17-90

Confirming

Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	93	102	8
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities

LAB #: 34086-90

NAME:

(b) (6)

(b) (6)

WELL #:

DATE:

1473M-1

0273E-2

1073E-2

1073E-2

0273D-2

0373A-2

10-19-90

10-18-90

10-17-90

10-19-90

10-18-90

10-18-90

Confirming

Confirming

Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	8	ND	40	36	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,2-Trichloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities

LAB #: 34086-90

NAME:

(b) (6)

WELL #:

1473C-2

2373D-1

1173N-1

1573K-1

0373L-1

1573C-7

DATE:

10-17-90

10-17-90

10-18-90

10-19-90

10-18-90

10-17-90

Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities

LAB #: 34086-90

NAME:

(b) (6)

Travel
Blank

Travel
Blank

Travel
Blank

WELL #:

1573C-14

10-11-90

10-12-90

10-15-90

DATE:

10-17-90

10-19-90

10-18-90

10-18-90

Chloroform	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND
Cumene	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND
1,1-Dichloropropane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND

AREA 05-01-89

PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

OCTOBER 1990
34086-90



TYPE	DATE	DESCRIPTION
1	10/1/89	10/1/89
2	10/1/89	10/1/89
3	10/1/89	10/1/89
4	10/1/89	10/1/89
5	10/1/89	10/1/89
6	10/1/89	10/1/89
7	10/1/89	10/1/89
8	10/1/89	10/1/89
9	10/1/89	10/1/89
10	10/1/89	10/1/89

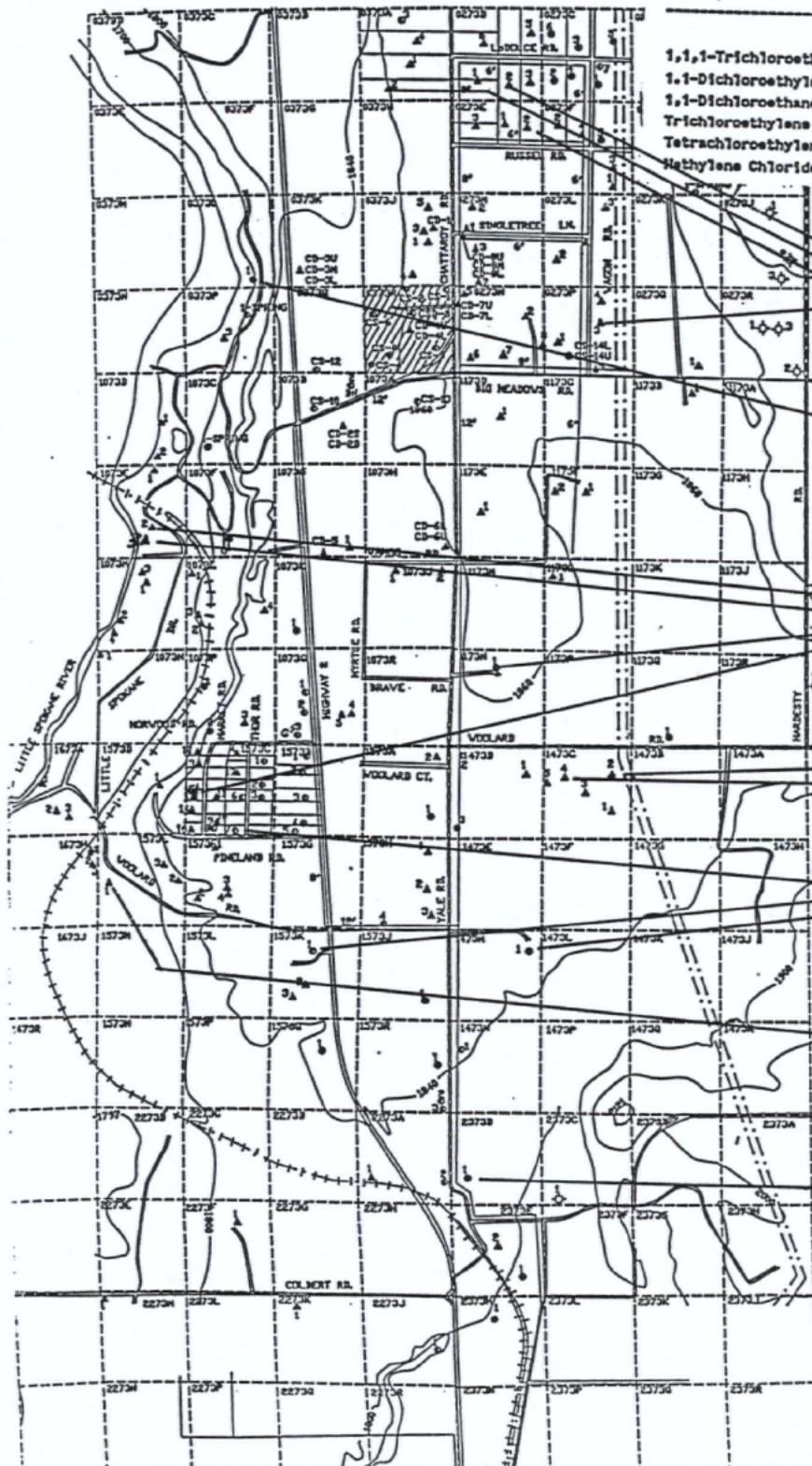
NOTE:

FOR IDENTIFICATION OF WELLS
SEE WELL SYMBOL/MARKER LEGEND

Health Protection Levels:

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment system. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant	Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane (TCA)	200.0	HCL
1,1-Dichloroethylene (DCE)	7.0	HCL
1,1-Dichloroethane (DCA)	4050.0	HAC
Trichloroethylene (TCE)	5.0	HCL
Tetrachloroethylene (PCE or TETRA CL)	0.7	10 -8 cancer risk
Methylene Chloride (MC)	2.5	10 -8 cancer risk



DEEP

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		1073C-2	NO	NO	NO	NO	NO
		1073A-2	NO	NO	NO	NO	NO
		1073E-2	NO	NO	NO	NO	NO
		1073P-3	102	NO	NO	NO	NO

SHALLOW

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
		STERLING SPRING	02731-12	NO	NO	NO	NO

DEEP

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		1073E-2	40	NO	NO	NO	NO
		1073E-3	NO	NO	NO	NO	NO
		1173H-1	NO	NO	NO	NO	NO
		1073C-14	NO	NO	NO	NO	NO

DEEP

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		1073C-2	NO	NO	NO	NO	NO
		1073C-4	NO	NO	NO	NO	NO

SHALLOW

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		1073C-7	NO	NO	NO	NO	NO
		1073K-1	NO	NO	NO	NO	NO
		1073H-1	8	NO	NO	NO	NO

DEEP

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		1073E-1	NO	NO	NO	NO	NO

SHALLOW

10/18/89	#34086-80	WELL # 111-TCA	11-DCE	11-DCA	TCE	TETRACHL	CHLOROFORM
(b) (6)		22730-1	NO	NO	NO	NO	NO